
1.5 Mb/s Remote Peripheral Equipment Diagnostic (LD 33)

This program is loaded manually or as one of the daily maintenance (midnight) routines. It must be included in the midnight routines for any system having Remote Peripheral Equipment (RPE).

Problems are reported in RPD messages.

RPD messages

RPD0000	Program identifier. No action.
RPD0001	Invalid input character. Action: Check input.
RPD0002	Invalid command. Action: Check input.
RPD0003	Incorrect number of parameters for command.
RPD0004	Invalid customer number for CMIN. Action: Check input.
RPD0005	Invalid parameter value or option for command. Action: Check input.
RPD0006	Loop specified is not an RPE loop. Command was not executed. Action: Use LRPE command to determine which loops are equipped RPE loops.
RPD0007	ENLL command specified loop which was already enabled or test was requested on disabled loop. Command not executed.

Action: Use ENLL or DISL as required.

RPD0008 ENLL command not executed.

Action: Use LD 32 to enable PS.

RPD0009 A DISI request is already active. The current request may be canceled via the END command.

RPD0010 Command execution is in progress.

Action: Enter END to terminate, if required.

RPD0011 Attempt to disable primary carrier. Command not executed.

Action: Use SCAR command to make the other carrier primary.

RPD0012 loop c The current command has cancelled an active DISI request for carrier c. This is not an error condition.

RPD0013 Carrier enabled when ENLC command given or carrier disabled when DISI or DISC command given. Command not executed.

Action: Use ENLC or DISC.

RPD0014 Current non-primary carrier disabled or DISI active on carrier. If this condition is detected during the midnight routines, the loop number is also output. SCAR command not executed.

Action: Use ENLC to enable secondary carrier.

RPD0015 Cannot switch carriers due to faults on secondary carrier. Disabling, then re-enabling the secondary carrier will clear fault indications for the carrier. This procedure should be used only if it is essential to switch carriers or if it is believed that the fault on the carrier has been cleared.

RPD0016 Command not available.

Action: Use LD 62.

RPD0017 Continuity test not done. All channels were busy. Test later. No fault implied.

RPD0018 loop c Carrier c disabled per DISI request.

RPD0019 Cannot switch carriers. Carrier status monitoring is disabled. If this condition is detected during midnight run, loop number is also output.

Action: Use the ENLM command to re-enable status monitoring.

RPD0020	Attempt to disable a loop to which the active maintenance set is connected. Command is not executed.
RPD0021 loop	An input buffer overflow occurred during an RPS test of the loop. Some signaling messages were lost. The memory test was terminated. No fault is implied. Action: Repeat test later.
RPD0022	A STAT command was entered to check the status of the current DISI command but no DISI command was active.
RPD0030	Program was loaded automatically to check carrier which had been automatically re-enabled. All RPE loops are tested and faults are indicated by output codes.
RPD0202 loop: s1 s2 sn	Continuity test failed for shelves s1, s2, etc. If all shelves on the loop failed, treat as RPD240. If at least one shelf is not in the list, probable fault in: 1. Peripheral Buffer or Controller 2. cable connecting network card to PE shelves
RPD0203 loop: n	Test of connection memory of network card failed, n channels are disabled. Network card probably faulty. If multiple network cards in the same group show this fault, it may be a fault in the CE extender connected to the group.
RPD0204 loop	Loop failed to respond to ENLL. Check that the network card is present and enabled at the faceplate switch. If so, the card may be faulty. If other loops on the same shelf fail to respond, it may be a fault in the CE extender to the group.
RPD0205 loop	The continuity checker is faulty. Possible fault in the network card.
RPD0208 loop ts	Network map indicates timeslot is idle but network memory is not idle.
RPD0211 loop c	Outgoing carrier c has failed. Timeslots using this carrier have been busied out. Use LD 62 LOCL command to check local end. If RPE211 is output from this command, then the fault may be: 1. QPC62 1.5Mb/s Baud Converter at local end 2. other local RPE cards 3. Network card
RPD0214 loop c	Incoming carrier c has failed. Timeslots using this carrier have been busied out. Use LD 62 LOCL command to check local end. If RPD214 or RPD215 is output from this command, then the fault may be: 1. QPC99 Carrier Interface at local end 2. QPC63 Local Carrier Buffer

3. Network card

If RPD214 or RPD215 is not output from the LOCL command, then the fault may be in the incoming line from the remote site, or the QPC62 at the remote site.

RPD0215 loop c Same as RPD214.

RPD0220 loop Local carrier buffer card does not respond. Fault may be:

1. QPC63 Local Carrier Buffer
2. Network card
3. cable connecting the above cards

RPD0221 loop Local carrier buffer card failed signaling test. See RPD220 for possible faults.

RPD0230 loop The QPC65 Remote Peripheral Switch failed to respond. Use LD 62 STAT command to determine which carrier is primary, then use the LOCL loop c ALL command to test that carrier's local equipment. If the test shows no fault at the local end, the fault may be in the remote end:

1. QPC63 Local Carrier Buffer
2. Network card
3. cable connecting the above cards

RPD0231 loop x The QPC65 Remote Peripheral Switch failed the memory connection test, x speech channels have been disabled. Fault may be the QPC65 Remote Peripheral Switch.

RPD0232 loop x Same as RPD230 except all tested channels failed.

RPD0240 loop c x Continuity test failed with carrier c, x speech channel have been disabled. Use LD 62 LDIS command for each carrier on the loop to determine which channels failed.

Action: Use the LOCL command to test carriers with disabled channels. If the LOCL tests pass, the fault may be at the remote QPC62 1.5 Mb/s Baud converter.

RPD0250 loop Carriers did not switch with SCAR command or in the midnight routines. This fault, by itself is not service affecting. Fault may be:

1. QPC63 Local Carrier Buffer local or remote
2. QPC99 Carrier Interface at local end
3. QPC66 2 Mb/s Baud Converter local or remote

	4. QPC99 Carrier Interface remote end
	5. QPC62 1.5 Mb/s Baud Converter remote end
RPD0260 loop	More than 24 messages have been received from the local carrier buffer since the midnight routines, or since the last time the loop was enabled. This message may occur with excessive use of the LD 33 SCAR command or the LD 62 manual tests. Otherwise, there is an intermittent fault which affects one or both carriers. In this case, see RPD214 for fault causes.
RPD0261 loop c	High error rate on carrier c. See RPD211 and RPD214.
RPD0300	Card did not respond to command/query (response timed out). Action: Ensure that the card is plugged in correctly, and the faceplate switch is in the enable position. If the card is still not responding a download is necessary.
RPD0301	Response to DSOP: Disabling this link would bring down service; command refused. Action: Use LD 32 to disable FNET and FPEC and then try again.
RPD0302	Response to ENOP: packet does not exist. Can not enable this link. Action: Insert packet on both cards (FNET and FPEC) or stop the transmission test.
RPD0303	Response to MNSN/MNSP: other link is faulty or disabled. Command refused. Action: Enable the link using the ENOP command and then try again.
RPD0304	Response to MNSN/MNSP: other link is under transmission test. Command refused. Action: Stop transmission test using the 'FSTP' command and try again.
RPD0305	Response to FTST: only one test can be performed. Command refused. Action: Use FSTA command for test status, or stop the test and try again. If the link is disabled then use the 'ENOP' command and try again.
RPD0306	Response to FSTA/FSTP: there is no running test; Command refused. Action: Use the 'FSTA' command for starting a test and try again.
RPD0307	Cannot send message to Fibre Network Card. Action: Wait and retry the command layer. If this error occurs again check the FNET card and associated cabling (equivalent of NPR084).

RPD

RPD0308	Response to PRPM: message with wrong Performance Monitoring interval number received. Action: Wait and retry the command later.
RPD0309	Remote IPE Package (286) is restricted.